

FY 02 TEST FISHERIES AND TEST FISH FUNDS IN THE CENTRAL REGION



TEST FISH FUND PROJECT RED BOOK - 2002

Regional Information Report¹ 2A01-28

**ALASKA DEPARTMENT OF FISH AND GAME
COMMERCIAL FISHERIES DIVISION
333 RASPBERRY ROAD
ANCHORAGE, AK 99518**

January 2002

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Alaska Department of Fish and Game
Commercial Fisheries Division
333 Raspberry Road
Anchorage, AK 99518

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FY 02 TEST FISHERIES AND TEST FISH FUNDS IN THE CENTRAL REGION

EXECUTIVE SUMMARY

CENTRAL REGION TEST FISH FUND

- ✓ **24 PROJECTS**
 - 15 SALMON
 - 5 HERRING
 - 4 SF/GF AND SMELT
- ✓ **AVERAGE REVENUE AND EXPENDITURES (FY 99 – FY 01)**
 - REVENUE = \$683.7
 - EXPENDITURE = \$650.1
 - 12% OF REGION'S GF BUDGET
- ✓ **6 PROJECTS GENERATE REVENUE**
 - \$463.4 = THREE-YEAR AVERAGE
 - 68% OF TEST FISH REVENUE

revenues earned were \$651.3. It is very difficult to match expenses with revenue due to year-to-year variations in run strength, price, other market conditions, and fishing success. During the past three years, however, the average expenditure has been \$650.1 per year, while the average revenue generated has been \$683.7 per year.

Many Test Fish Fund projects either do not harvest fish at all (e.g. catch sampling), or harvest insufficient quantities of fish to cover expenses (e.g. inriver test fisheries). Therefore, the success of this program relies heavily on a group of projects that, in whole or in part, are designed simply to generate revenue to pay for themselves and for projects that cannot generate sufficient revenue. These projects account for 68 percent of all Test Fish Fund revenues in Central Region. Without these projects, the Test Fish Fund program could not survive. Given that Test Fish Fund expenditures add approximately 12

Alaska's Test Fish Fund program is authorized by the Alaska Legislature as a means of helping fund fisheries research and management projects by the sale of fish. Originally, this was a means of preventing waste of fish caught and killed during the normal conduct of test fishing projects. Following the severe budget cuts of the late 1980s, the program was expanded beyond actual test fishing projects to include other activities such as catch sampling, smolt counting, and fishery monitoring. The program grew through the 1990s as budget constraints and inflation further eroded the department's ability to maintain critical programs.

Central Region's Test Fish Fund program is made up of 24 primary projects. Of these, 15 are involved with salmon, 5 with herring, 3 with shellfish and groundfish, and 1 with smelt. Total expenditure of Test Fish funds during FY 01 was \$654.1 while

TEST FISH FUND CONCERNS

- ✓ **UNCERTAIN REVENUE**
 - LOW PRICES
 - LACK OF MARKETS
 - UNPREDICTABLE FISHING SUCCESS
- ✓ **CONFLICT WITH PUBLIC**
 - PHILOSOPHICAL OPPOSITION
 - HARVESTING LARGER SHARE OF CATCH
- ✓ **STAFF TIME**
 - LINING UP BUYERS AND FISHERS
 - JUSTIFYING PROGRAM
 - ACCOUNTING

percent to the Central Region General Fund budget, this loss would have serious consequences for commercial fisheries in Central Region.

This aspect of the program is, however, controversial and unpopular with many commercial fishermen, who do not believe the department should harvest fish solely to generate revenue. The department has concerns about this funding mechanism as well. It provides a very uncertain source of funding for vital projects, creates conflict with the public, and uses up valuable staff time.

TEST FISH FUND SOLUTIONS

- ✓ **CONTINUE PRESENT PROGRAM**
 - UNCERTAIN REVENUE
 - CONFLICT WITH PUBLIC
 - POOR USE OF STAFF TIME
- ✓ **DISCONTINUE REVENUE GENERATION**
 - LOSS OF CORE PROJECTS
 - LOSS OF STAFF
- **REPLACE REVENUE PROJECTS WITH GENERAL FUND**
 - **COST TO GF = \$463.4**
 - **IMPROVE BUDGETING**
 - **REDUCE CONFLICT**
 - **MAINTAIN CORE PROGRAMS**

Three potential solutions to this problem exist – continuing on with the current program, discontinuing revenue generating projects, and replacing revenue generation with General Fund monies. Of these three, the preferred solution is to obtain General Fund money so that the department is not required to generate additional revenue. Obtaining such a General Fund budget increment would provide tangible benefits to both the department and the fishing public. It would free up staff time for scientific purposes; leave more of the resource available to be harvested by the public; and provide more certainty in budgeting for these projects.

The Test Fish Fund has become a very important part of the department's program in Central Region. By providing this document to the public and to decision makers, the department hopes to foster better understanding of the program and provide a sound basis for discussion and decisions.

INTRODUCTION

This document outlines the use of Test Fish Funds in Central Region for Fiscal Year (FY) 2002. Each project that either generates or expends Test Fish Funds is described, including its primary objective, and how the sale of fish and contracting of vessels is handled for that project.

The Alaska State Legislature authorizes use of the Test Fish Fund. The concept of the Test Fish Fund is that revenues are generated from the sale of fish to offset the expenses of certain projects designated as Test Fish Fund projects. Projects included in this category include traditional “test fishing” type projects such as the Bristol Bay inriver and district test fishing projects, the Cook Inlet Offshore Test Fish project, and the Prince William Sound Southwest District test fishery. As part of their data collection, these projects harvest fish that are in turn sold to offset expenses and prevent waste. Many of these projects, such as Bristol Bay’s inriver test fisheries and Cook Inlet’s Offshore Test Fish project, cannot generate adequate revenue without compromising their scientific purposes. Also included are projects such as catch sampling, stock assessment surveys, and fishery monitoring, which do not involve the harvest of fish. This latter category of projects has been added during the last fourteen years because of general fund cuts and the effects of inflation on stable or reduced budgets. Because many important projects do not or cannot generate sufficient revenue to cover the cost, certain projects are required to generate additional revenue in order to pay for those that do not.

Because these projects are funded by the harvest of fishery resources that would otherwise be available to be harvested in the common property fishery, it is incumbent upon the department to look for the most efficient methods to harvest and sell fish as well as the most cost effective means to operate projects that rely on Test Fish Funds. It is also incumbent on the department not to harvest fishery resources when stocks are depressed or when additional harvest is not prudent or necessary. For these reasons some projects may not operate every year, or may not generate revenue every year.

It is the purpose of this document to describe in detail the test-fishing program in Central Region so that the public fully understands the nature of this program, budget decision makers can make informed decisions on the scope and character of the program, and budget managers can operate the program in the most efficient manner.

The Central Region Test Fish Fund program consists of 24 projects ranging from test fisheries to determine abundance of salmon, shellfish, and groundfish to salmon catch sampling and counting outmigrating smolts. Total expenditures for these projects during the last three years averaged \$650.1, while revenues have averaged \$683.7. Test Fish Funds therefore represent a substantial addition of 12 percent to the region’s General Fund allocation of \$5206.7 for FY 2002.

REVENUE GENERATING PROJECTS

Because Test Fish Fund projects include many that do not catch fish at all, or catch insufficient fish to cover their cost, it is necessary to operate some projects that catch fish solely to generate revenue or to alter the normal operation of some projects in order to enhance the revenue generated. Bristol Bay salmon Stock ID Test Fish and Bristol Bay herring Inseason Test Fish are operated solely to generate

revenue necessary to pay for non-revenue generating projects such as catch sampling and smolt enumeration. With declining prices in recent years, three other projects (Bristol Bay salmon East Side District Test Fish and Nushagak District Test Fish; Cook Inlet Offshore Test Fish) do not catch enough fish to cover the cost of the projects. Approximately 30 percent of the revenue generated by the two Bristol Bay projects is needed solely to cover the budget shortfall associated with normal operation of the project. The Offshore Test Fish project in Upper Cook Inlet requires a separate revenue generating effort that exceeds the typical sales from the actual test fishing operation. In the Central region Shellfish/Groundfish program, the pollock portion of the Groundfish Assessment project is operated for revenue generation. Together these projects generated an average of \$463.4 (Table 1) during the last three fiscal years. This represents 68 percent of the average test fish revenues of \$683.7 generated during those years.

Table 1. Projects necessary to generate Test Fish Fund revenues.

PROJECT	REVENUE			FY 99-01 AVERAGE
	2001	2000	1999	
SALMON				
Stock ID TF	310.6	229.4	275.7	271.9
E. Side Dist. TF^a	26.6	17.7	40.7	28.3
Nushagak Dist. TF^a	14.0	11.9	23.8	16.6
CI Offshore TF^b	25.0	57.9	33.5	38.8
HERRING				
BB Inseason TF	70.8	67.9	87.4	75.4
SF/GF				
GF Assessment^c	19.8	29.7	47.8	32.4
TOTAL	466.8	414.5	508.9	463.4

^a Approximately 30% of total revenue

^b Revenue generation portion only

^c Pollock portion only

These types of projects are controversial and are objectionable to many commercial fishermen. These fishermen often feel that it is reasonable to sell the catch that comes from necessary test fishing activities, but the department should not set out solely to harvest fish to pay for non-test fishing projects such as catch sampling. This concern has been compounded in recent years as the value and run strength of salmon has declined. The relative cost of the Test Fish Fund program to the fishermen has increased. For example, in 1999 the total Bristol Bay salmon Test Fish Fund revenue of \$547.8 equaled 0.5 percent of the exvessel value of the fishery while the 2001 revenue of \$471.3 equaled 1.2 percent of the total exvessel value of the fishery. So even though the program was scaled back, the Test Fish Fund harvest increased by 140 percent relative to the value of the fishery. This trend is expected to continue in 2002 with even lower prices and a forecasted harvest of 9.7 million sockeye for Bristol Bay. Other management areas in the region are also expected to face difficult economic conditions during the coming season. The department faces difficult choices in this matter. Three potential solutions are:

- ✓ **Continue with the program as it is.** This creates a certain amount of hostility toward the department, especially in the current climate of low prices and declining salmon runs. The portion of a salmon run that must be harvested to pay for projects has gone up dramatically as prices have fallen and runs have declined. This solution also creates problems for staff that must administer

this program as it adds the additional burden of actually generating budget revenue to employees that are already fully employed. Due to uncertainties in run strength, prices, other market conditions, and processor interest, it may be difficult to ensure that revenues ultimately cover expenditures.

- ✓ **Discontinue revenue generating test fish projects.** This would cost the Central Region fisheries management and research program an average of \$463.4 per year. Core programs such as catch sampling, stock identification, stock assessment, and smolt counting could be lost. There would also be layoff of staff associated with many of these projects.
- **Obtain General Fund dollars to offset the need to carry out revenue generating projects.** This would cost the state approximately \$463.4 per year. This is the best solution since it maintains critical core program elements and staff, gives staff more time to work on biological projects, reduces the uncertainty of revenue levels, and improves the department's relationship with the fishing industry.

In order to implement this solution, the department would need to submit a budget increment request of \$463.4 to the Alaska Legislature.

SALMON TEST FISH PROJECTS

I. BRISTOL BAY

A. Inriver Test Fish Projects

Project Name: Kvichak River Test Fish

Budget Code: 11100721-11127419

Location: Kvichak River

Timing: Late June - Early July

Contact: Drew Crawford

Primary Objective: To provide real time estimates of the number of sockeye salmon adults which have escaped the commercial fishery and entered the Kvichak River. Management biologists use this information during the season to control the commercial harvest and achieve the escapement goal.

Catch and Sales: ADF&G personnel catch salmon in the Kvichak River in a 25-fathom drift gill net. ADF&G personnel sell fish in the name of the state under a CFEC permit to various processors in the King Salmon/Naknek area who are convenient and/or available. Processors pay directly to the state, which receives full value for the fish and is paid grounds price after the fishing season. The state receives price adjustments later in the year similar to the fishermen if the processor in question increases their purchase price. It is not possible to generate sufficient revenues to pay for the project without compromising the project's scientific purposes.

Table 2. Kvichak River Test Fish Project TF-419.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	33.2		
2001	32.9	24.4	1.5
2000	32.5	31.1	19.5
1999	32.9	31.6	19.3

Project Name: Egegik River Test Fish

Budget Code: 11100721-11127420

Location: Egegik River

Timing: Late June – Early July

Contact: Drew Crawford

Primary Objective: To provide real time estimates of sockeye salmon adults which have escaped the commercial fishery and entered the Egegik River. Management biologists use this information during the season to control the commercial harvest and achieve the escapement goal.

Catch and Sales: ADF&G personnel catch adult salmon in the Egegik River in a 25-fathom drift gill net. ADF&G personnel sell fish in the name of the state under a CFEC permit to various processors in the Egegik area who are convenient and/or available. Processors pay directly to the state, which receives full value for the fish and is paid grounds price after the fishing season. The state receives price adjustments later in the year similar to the fishermen if the processor in question increases their purchase price. It is not possible to generate sufficient revenues to pay for the project without compromising the project's scientific purposes.

Table 3. Egegik River Test Fish Project TF-420.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	32.9		
2001	32.6	30.7	15.6
2000	32.2	30.8	10.0
1999	31.7	26.5	20.8

Project Name: Ugashik River Test Fish

Budget Code: 11100721-11127421

Location: Ugashik River

Timing: Late June - Early July

Contact: Drew Crawford

Primary Objective: To provide real time estimates of sockeye salmon adults which have escaped the commercial fishery and entered the Ugashik River. Management biologists use this information during the season to control the commercial harvest and achieve the escapement goal.

Catch and Sales: ADF&G personnel catch adult salmon in the Ugashik River in a 25-fathom drift gill net. ADF&G personnel sell fish in the name of the state under a CFEC permit to various processors in the Ugashik Village and Pilot Point area who are convenient and/or available. Processors pay directly to the state, which receives full value for the fish and is paid grounds price after the fishing season. The state receives price adjustments later in the year similar to the fishermen if the processor in question increases their purchase price. It is not possible to generate sufficient revenues to pay for the project without compromising the project's scientific purposes.

Table 4. Ugashik River Test Fish Project TF-421.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	28.7		
2001	28.6	23.1	8.1
2000	28.3	20.6	3.0
1999	28.4	23.1	7.1

Project Name: Igushik River Test Fish

Budget Code: 11100721-11127423

Location: Igushik River

Timing: Late June - Early July

Contact: Lee McKinley

Primary Objective: To provide real time estimates of sockeye salmon adults which have escaped the commercial fishery and entered the Igushik River. Management biologists use this information during the season to control the commercial harvest and achieve the escapement goal.

Catch and Sales: ADF&G personnel catch adult salmon in the Igushik River in a 25-fathom drift gill net. ADF&G personnel sell fish in the name of the state under a CFEC permit to various processors who have tenders at the mouth of the Igushik River who are convenient and/or available. Processors pay directly to the state, which state receives full value for the fish and is paid grounds price after the fishing season. The state receives price adjustments later in the year similar to the fishermen if the processor in question increases their purchase price. It is not possible to generate sufficient revenues to pay for the project without compromising the project's scientific purposes.

Table 5. Igushik River Test Fish Project TF-423.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	22.7		
2001	22.4	8.1	0.4
2000	21.8	19.0	0.1
1999	21.9	23.9	9.7

B. Commercial Fishing District Test Fish Projects

Project Name: Stock Identification Test Fish

Budget Code: 1100721-11127417

Location: Naknek-Kvichak, Egegik, and Ugashik Districts

Timing: Late June - Early July

Contact: Lowell Fair

Primary Objective: To generate revenue for the other test fish projects in Bristol Bay which provide essential information to management biologists, but are unable to harvest sufficient fish to pay for their operations.

Catch and Sales: Adult salmon are harvested by commercial fishing vessels from a variety of locations in the Eastside Bristol Bay commercial fishing districts. All Bristol Bay processors who have filed an Intent to Operate are sent a bid solicitation for the opportunity to purchase a specified number of pounds of sockeye salmon. Part of the bid requirement is to not only purchase the fish, but to provide the boats, skippers, nets, equipment, fuel, and logistics to harvest the fish. The contract is awarded to the processor who submits a bid for the highest price per pound. ADF&G personnel are onboard the fishing vessels during test fish operations. ADF&G personnel sell fish under a CFEC permit to the processor who was awarded the contract. Processors pay the state directly based on the number of pounds of fish harvested and the price outlined in the successful bid. Excess revenue generated by this project pays for: 1) the catch sampling and limnology projects which generate no revenue and 2) the inriver and commercial district test fisheries, which do not generate sufficient revenue.

Table 6. Bristol Bay Stock Identification Test Fish Project TF-417.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	127.3		
2001	107.2	97.6	310.6
2000	98.2	29.2	229.4
1999	100.3	95.3	275.7

Project Name: Eastside District Test Fish

Budget Code: 11100721-11127422

Location: Naknek-Kvichak, Egegik, and Ugashik Districts

Timing: Late June - Early July

Contact: Steve Morstad, Keith Weiland

Primary Objective: To provide real time estimates of sockeye salmon distribution and abundance in Bristol Bay's eastside fishing districts. Management biologists use this information during the season to regulate the commercial harvest and achieve escapement goals.

Catch and Sales: Commercial fishing boats are chartered with a Short Term Vessel Charter to perform the test fishing in each of the three eastside Bristol Bay commercial fishing districts. A

list of interested fishermen is compiled prior to the fishing season and test fish boats are chosen from the list based on their availability. Test fishermen are paid directly by the state based on the terms of the Short Term Vessel Charter. A Fish and Game observer is aboard the boat during test fish operations. ADF&G personnel sell the fish under a CFEC permit. Fish are generally sold to the processor who normally buys from the contracted fisherman. If the contracted fisherman's processor is unavailable, a processor who is convenient and/or available is used. Processors pay directly to the state, which receives full value for the fish and is paid grounds price after the fishing season. The state receives price adjustments later in the year similar to the fishermen if the processor in question increases their buying price.

Table 7. Bristol Bay Eastside District Test Fish Project TF-422.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	50.3		
2001	49.8	86.3	88.5
2000	49.0	53.1	59.0
1999	49.6	138.1	135.8

Project Name: Nushagak District Test Fish

Budget Code: 11100721-11127424

Location: Nushagak District

Timing: Late June - Early July

Contact: Jim Browning

Primary Objective: To provide real time estimates of sockeye salmon distribution and abundance in the Nushagak District. Management biologists use this information during the season to regulate the commercial harvest and achieve escapement goals. The project also provides for an observer to monitor subsistence chinook salmon catches at Lewis Point to aid in management of the commercial chinook salmon fishery.

Catch and Sales: A commercial fishing boat, under contract for the season, fishes throughout the district on a regular basis. The contract is awarded by open competitive bid and the boat is paid directly by the state according to the terms of the contract. A Fish and Game observer is aboard the boat during test fish operations. ADF&G personnel sell the fish under a CFEC permit. Fish are generally sold to the processor who normally buys from the contracted fisherman. If the contracted fisherman's processor is unavailable, a processor who is convenient and/or available is used. Processors pay directly to the state, which receives full value for the fish and is paid grounds price after the fishing season. The state receives price adjustments later in the year similar to the fishermen if the processors in question increase their buying price.

Table 8. Nushagak District Test Fish Project TF-424.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	49.3		
2001	48.9	43.6	46.6
2000	48.5	18.0	39.5
1999	48.6	70.9	79.0

C. Catch Sampling Projects

Project Name: Eastside Catch Sampling

Budget Code: 11100721-11127418

Location: Naknek-Kvichak, Egegik, and Ugashik Districts

Timing: Late June - Early July

Contact: Lowell Fair

Primary Objective: Collect sockeye weight, sex, and scale samples from Naknek-Kvichak, Egegik, and Ugashik Districts commercial catches. In addition, scale-processing personnel are coded to this budget. These individuals process, age, and compile all scales from Bristol Bay commercial and test fish catches.

Catch and Sales: No fish are caught or sold by this project.

Table 9. Bristol Bay Eastside Catch Sampling Project TF-418.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	32.2		
2001	31.7	35.0	0.0
2000	30.6	29.2	0.0
1999	30.6	29.0	0.0

Project Name: Westside Catch Sampling

Budget Code: 11100721-11127425

Location: Nushagak and Togiak Districts

Timing: Late June - Early July

Contact: Lee McKinley

Primary Objective: To collect sockeye, chinook, and chum salmon length, weight, sex, and scale samples from the Nushagak and Togiak Districts commercial catches and test fish catches. Samples are collected from dockside processors located in Dillingham, Ekuk, and Togiak and from test fishing boats. Data are used to estimate age, sex, and size composition of commercial and test fish catches.

Catch and Sales: No fish are caught or sold by this project.

Table 10. Bristol Bay Westside Catch Sampling Project TF-425.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	19.3		
2001	19.2	19.1	0.0
2000	18.9	20.2	0.0
1999	18.9	20.5	0.0

D. Limnology and Smolt Projects

Project Name: Bristol Bay Limnological Studies

Budget Code: 11100721-11127426

Location: Bristol Bay Lakes

Timing: May - October

Contact: Jim Edmundson

Primary Objective: This project is being done in cooperation with the Lake and Peninsula Borough and the U.S. Fish and Wildlife Service for the purpose of collecting and analyzing data concerning limnological factors that may govern sockeye salmon production in Ugashik and Becharof Lakes. These lakes produce sockeye salmon returning to the Egegik and Ugashik Districts commercial fisheries. This information will help evaluate the capacity of these lakes to rear juvenile sockeye and will be extremely valuable in evaluating escapement goals and developing better fishery management strategies.

Catch and Sales: No fish are caught or sold by this project.

Table 11. Bristol Bay Limnological Studies Project TF-426.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	0.0		
2001	0.0	0.0	0.0
2000	20.0	14.2	0.0
1999	20.0	21.7	0.0

Project Name: Ugashik Smolt

Budget Code: 11100721-11127427

Location: Ugashik River

Timing: May

Contact: Drew Crawford

Primary Objective: To estimate the numbers of smolt migrating out of the Ugashik River in order to help forecast the return of adults. This project also works in concert with the limnology studies detailed below to help develop a better understanding of the salmon production capacity of the Ugashik Lakes.

Catch and Sales: No fish are caught or sold by this project.

Table 12. Ugashik Smolt Project TF-427.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	19.4		
2001	19.1	21.5	0.0
2000	19.9	10.4	0.0
1999	20.0	11.0	0.0

II. COOK INLET

Project Name: Fishery Monitoring

Budget Code: 11100721-11127357

Location: Soldotna

Timing: June - September

Contact: Jeff Fox

Primary Objective: To obtain escapement counts and biological data on the sockeye salmon escapement to Larsen Lake.

Catch and Sales: No fish are caught or sold by this project.

Table 13. Cook Inlet Fishery Monitoring Project TF-357.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	17.4		
2001	17.5	15.5	0.0
2000	16.8	12.2	0.0
1999	0.0	0.0	0.0

Project Name: Offshore Test Fishing

Budget Code: 11100721-11127358

Location: Anchor Point

Timing: Late June - Late July

Contact: Mark Willette

Primary Objective: To provide real time estimates of the number of sockeye salmon entering the Central District of Upper Cook Inlet. Fishery management biologists use this information during the season to assess run strength and develop appropriate management strategies to ensure escapement goals are met.

Catch and Sales: A single vessel is chartered in three year time blocks by competitive bid on a daily rate to fish a series of stations on a transect across the southern entrance to Upper Cook Inlet. The vessel provides all food, fuel, and gear. The vessel sells the fish in the name of the state under a CFEC permit to various processors who are convenient and/or available based on the best price and service. Processors pay directly to the state, which receives full value for the fish and is paid the grounds price applicable at the time of delivery. In addition any salmon that are killed as a result of sampling during sonar and genetics projects are also sold under this project in a manner similar to that described above.

In conjunction with this project efforts have been made to contract a vessel, or vessels, solely for the purpose of harvesting fish to generate revenue. UCI Test Fish Fund projects are under funded by an average of about \$70.0 even with the additional efforts to catch and sell fish, which

averages \$38.8 per year. This revenue generating effort is largely unsuccessful due to contracting problems or processor default, but will continue in the future.

Table 14. Cook Inlet Offshore Test Fishing Project TF-358.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE^a
2002	64.3		
2001	64.1	51.2	44.0
2000	64.0	61.3	84.5
1999	64.0	9.0	34.3

^a Includes funds from directed efforts to catch and sell fish.

Project Name: Limnological Studies

Budget Code: 11100721-11127360

Location: Soldotna

Timing: May - October

Contact: Jim Edmundson

Primary Objective: To provide salmon production and stock status information needed by area management staff to regulate fisheries for sustained yield.

Catch and Sales: No fish are caught or sold by this project.

Table 15. Cook Inlet Limnological Studies Project TF-360.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	27.6		
2001	39.4	40.0	0.0
2000	38.2	44.3	38.5
1999			

III. PRINCE WILLIAM SOUND

Project Name: Salmon Test Fish

Budget Code: 11100721-11127337

Location: Southwestern District

Timing: Late July - Early August

Contact: Dan Gray

Primary Objective: To provide real time estimates of the volume of pink salmon entering Prince William Sound and provide coded wire tag samples for assessing contribution of wild and hatchery fish to the run as it enters. Fishery management biologists use this information to develop appropriate management strategies to ensure wild stock escapements are met and hatchery fish are harvested at an acceptable level of quality. This project also generates revenues that pay for operating Eshamy weir.

Catch and Sales: A number of salmon seine vessels are chartered on a daily basis using Short Term Vessel Charter agreements to fish for pink salmon in the Southwestern District of Prince William Sound. Vessels are selected from those volunteering using a rotational pattern. Payment is \$800.00 per day. The vessel provides all food, fuel, and gear. Vessels sell fish e sold by the vessel in the name of the state under a CFEC permit to various processors who are convenient and available based on the best price and service. Processors pay directly to the state, which receives full value for the fish and is paid the grounds price applicable at the time of delivery.

Table 16. Prince William Sound Salmon Test Fish Project TF-337.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	91.8		
2001	90.9	5.9	0.0
2000	88.7	34.1	30.2
1999	88.7	0.0	0.0

HERRING TEST FISH PROJECTS

I. BRISTOL BAY

Project Name: Spawn On Kelp Studies

Budget Code: 11100721-11127453

Location: Togiak District

Timing: Late May - Early June

Contact: Tim Sands

Primary Objective: To collect information on the abundance of kelp in areas which have been commercially harvested in recent years. This information will provide estimates of mortality of herring spawning substrate in areas important to both herring spawning and to the commercial fishery.

Catch and Sales: Spawn on kelp harvested during this project is small in quantity and is used only for necessary sampling. No herring or kelp is expected to be sold. Revenue from the inseason test fishery will pay for this project.

Table 17. Bristol Bay Spawn On Kelp Studies Project TF-453.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	0.0		
2001	0.0	0.0	0.0
2000	61.2	0.0	0.0
1999	61.3	0.0	0.0

Project Name: Post-season Herring Test Fish

Budget Code: 11100721-11127454

Location: Togiak District

Timing: Late May - Early June

Contact: Lowell Fair

Primary Objective: To collect information on the abundance and age and sex composition of herring in the Togiak area following the completion of the commercial fishery. This information will improve estimates of the abundance and survival of younger age classes of herring and should result in more accurate forecasts of the abundance of younger age classes in future years.

Catch and Sales: Small numbers of herring are harvested during this project and used for age, sex, size sampling. No herring are expected to be sold. Revenue from the inseason test fishery will pay for this project.

Table 18. Bristol Bay Post-season Herring Test Fish Project TF-454.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	42.5		
2001	42.4	0.0	0.0
2000	42.4	0.0	0.0
1999	42.8	0.0	0.0

Project Name: Inseason Herring Test Fish

Budget Code: 11100721-11127459

Location: Togiak District

Timing: May

Contact: Jim Browning

Primary Objective: To collect abundance calibration estimates, age and sex composition, and quality information from herring in the commercial fishing district. Herring fishery managers use this information to expand their aerial survey estimates to total abundance estimates. In addition, age, sex, and quality information is used in conjunction with commercial catch samples to develop year class abundance estimates for Togiak herring. This project generates the revenue necessary to pay for itself as well as the post-season sampling and spawn-on-kelp studies.

Catch and Sales: All processors who have filed an Intent to Operate in the Togiak herring fishery are sent a bid solicitation for the opportunity to purchase a specified number of tons of herring. Bidders are required to purchase the herring and also provide the purse seine vessel, skipper, spotter pilot and plane, purse seine, equipment, fuel, and logistics to capture the herring. The contract is awarded to the processor who submits a bid for the highest price per ton. ADF&G personnel are onboard the fishing vessels during test fish operations. In addition, an ADF&G biologist responsible for aerial surveys of herring is onboard a leased helicopter and directs the activities of the purse seine vessel. ADF&G personnel sell the fish under a CFEC permit to the

processor who was awarded the contract. Processors pay directly to the state based on the number of tons of herring harvested, the roe percent, and the price outlined in the successful bid.

Table 19. Bristol Bay Inseason Herring Test Fish Project TF-459.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	42.5		
2001	50.1	80.0	70.8
2000	20.0	64.3	67.9
1999	20.0	27.7	87.4

II. COOK INLET

Project Name: Herring Test Fish

Budget Code: 11100721-11127447

Location: Kamishak Bay District

Timing: Late April - Late May

Contact: Lee Hammarstrom

Primary Objective: To collect abundance calibration estimates, age and sex composition, and roe quality information from herring in the commercial fishing district. This project also allows collection of samples from the time period following the commercial fishery in order to include younger age classes of herring in all analyses. Herring fishery managers use this information to expand their aerial survey estimates to total abundance estimates. In addition, age, sex, and quality information is used in conjunction with commercial catch samples to develop year class abundance estimates for Kamishak Bay herring and forecast future returns.

Catch and Sales: All processors who have registered filed for Kamishak Bay herring fishery are sent a bid solicitation for the opportunity to purchase a specified number of tons of herring. Successful bidders are required to purchase the herring and to provide the purse seine vessel, skipper, spotter pilot and plane, purse seine, equipment, fuel, and logistics to capture the herring. The contract is awarded to the processor who submits a bid for the highest price per ton. ADF&G personnel are onboard the fishing vessels during test fishing operations. In addition, an ADF&G biologist responsible for aerial surveys of herring is onboard the spotter plane and helps directs the activities of the purse seine vessel. ADF&G personnel sell fish in the name of the state under a CFEC permit to the processor who was awarded the contract. Processors pay directly to the state based on the number of tons of herring harvested, the roe percent, and the price outlined in the successful bid.

Table 20. Cook Inlet Herring Test Fish Project TF-447.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	30.0		
2001	30.0	0.0	0.0
2000	30.0	9.3	0.0
1999	30.0	13.2	10.0

III. PRINCE WILLIAM SOUND

Project Name: Herring Test Fish

Budget Code: 11100721-11127437

Location: Prince William Sound

Timing: April

Contact: Dan Gray

Primary Objective: To collect aerial survey and acoustic biomass estimates and to calibrate those estimates as well as to collect size, age, and sex composition information from herring in the commercial fishing district before, during and after the commercial fishery. This project has been recently expanded to allow collection of adequate samples from the time period following the commercial fishery in order to include younger age classes of herring in all analyses. Herring managers and researchers use this information to expand their aerial survey estimates to total abundance estimates which can be compared with acoustic estimates and to forecast herring return in future years.

Catch and Sales: All processors who have registered for the Prince William Sound Bay herring fishery are sent a bid solicitation for the opportunity to purchase a specified number of tons of herring. Successful bidders are required to purchase the herring and to provide the purse seine vessel, skipper, spotter pilot and plane, purse seine, equipment, fuel, and logistics to capture the herring. The contract is awarded to the processor who submits a bid for the highest price per ton. ADF&G personnel are onboard the fishing vessels during test fishing operations. In addition, an ADF&G biologist responsible for aerial surveys of herring is onboard the spotter plane and helps direct the activities of the purse seine vessel. ADF&G personnel sell the fish under a CFEC permit to the processor who was awarded the contract. Processors pay directly to the state based on the number of tons of herring harvested, the roe percent, and the price outlined in the successful bid.

Table 21. Prince William Sound Herring Test Fish Project TF-437.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	57.7		
2001	57.6	0.0	0.0
2000	57.5	1.9	0.0
1999	57.5	3.9	2.4

SHELLFISH/GROUNDFISH TEST FISH PROJECTS

I. COOK INLET

Project Name: Shellfish/Groundfish Stock Assessment

Budget Code: 11100721-11127483

Location: Lower Cook Inlet

Timing: Year Around

Contact: Bill Bechtol

Primary Objective: To support stock assessment surveys which collect data on shellfish and groundfish stocks throughout Lower Cook Inlet. Results are used to set harvest levels, time fishery openings, and gain basic biological information on the stocks. The objective of this project has shifted from Dungeness crab soft shell surveys to stock assessment for any shellfish or groundfish stock where such a program is necessary or desirable.

Catch and Sales: Vessels are hired by competitive bid using a Short Term Vessel Charter. ADF&G personnel sell fish and shellfish in the state's name under a CFEC permit to local processors based on a combination of the best price, availability, and service. Processors pay the state directly, which receives full value for the fish and is paid the grounds price applicable at the time of delivery. Some crab stocks in Lower Cook Inlet are too depressed to justify harvesting significant quantities to pay for the program. Therefore to the maximum extent possible, crabs are returned to the sea alive. For this reason, little use was made of this project when it only addressed Dungeness crab.

Table 22. Cook Inlet Shellfish/Groundfish Stock Assessment Project TF-483.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	5.0		
2001	5.0	0.0	0.0
2000	5.0	0.0	0.0
1999	25.0	1.8	0.0

II. PRINCE WILLIAM SOUND

Project Name: Groundfish Assessment

Budget Code: 11100721-11127466

Location: Prince William Sound

Timing: February, September

Contact: Bill Bechtol

Primary Objective: To estimate abundance of pollock using hydro-acoustic methods and relative abundance of sablefish using catch per unit of effort data in Prince William Sound. Biological information is collected as necessary from the fish harvested.

Catch and Sales: The two species are handled somewhat differently. For pollock, processors bid competitively on a set amount of pollock estimated to provide sufficient revenue to pay the costs of doing the hydro-acoustic survey. The contract is awarded to the processor bidding the highest price per ton of pollock. Part of the bid requirement is to provide the gear, vessel, skipper, fuel, and logistics to capture the pollock. ADF&G personnel sell the pollock in the name of the state under a CFEC permit. Processors pay the state directly based on the number of tons of pollock purchased and the price offered in the successful bid. The hydro-acoustic abundance survey is conducted independently of the pollock harvesting operation, since timing of the survey is dependent on the desired biological information and the availability of staff or contractors suitable to do this highly specialized work. If a private vessel is contracted to do the hydro-acoustic survey this is accomplished by competitive bid through a Short Term Vessel Charter.

For sablefish, processors bid competitively on the estimated amount of sablefish that will be harvested during the actual test fishing operation, which is conducted from the ADF&G vessel Montague utilizing commercial style long-line gear. The contract is awarded to the processor bidding the highest price per pound of sablefish. ADF&G personnel sell the sablefish in the name of the state under a CFEC permit to the processor who submitted the successful bid. Processors pay the state directly based on the number of pounds of sablefish purchased and price offered in the successful bid.

Table 23. Prince William Sound Groundfish Assessment Project TF-466.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	70.1		
2001	69.6	42.1	51.1
2000	68.9	51.8	50.6
1999	68.9	53.5	64.5

Project Name: PWS Shellfish Stock Assessment

Budget Code: 11100721-11127472

Location: Prince William Sound

Timing: Year Around

Contact: Bob Berceli

Primary Objective: To support stock assessment surveys where fisheries have been closed and the department lacks programs to monitor rebuilding or where there are new and developing fisheries for which little or no information exists. This project also funds onboard observers to collect data during commercial fisheries.

Catch and Sales: Either an ADF&G vessel is used or else private vessels are hired by competitive bid using a Short Term Vessel Charter. ADF&G personnel sell the shellfish in the state's name under a CFEC permit to local processors based on a combination of the best price, availability, and service. Processors pay directly to the state, which receives full value for the fish and is paid the grounds price applicable at the time of delivery. Most shellfish stocks in PWS are too depressed to justify harvesting in order to pay for the programs. Therefore to the maximum extent possible, animals are returned to the sea alive. For this reason, relatively little use is made of this project.

Table 24. PWS Shellfish Stock Assessment Project TF-472.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	6.6		
2001	6.6	0.0	0.0
2000	6.0	0.0	0.0
1999	13.4	0.0	0.0

SMELT TEST FISH PROJECTS

I. PRINCE WILLIAM SOUND

Project Name: Smelt Test Fish

Budget Code: 11100721-11127321

Location: Cordova/Copper River

Timing: Late May - Early June

Contact: Steve Moffitt

Primary Objective: To collect and study samples of the catch within appropriate time and area strata for otoliths, sex, and size data. This information is used to determine the biomass of smelt and whether the stock is capable of supporting a commercial fishery.

Catch and Sales: A contractor is hired by competitive bid using a Copper River District Test Fish Invitation To Bid. The successful contractor must provide the crew, boat, gear, equipment, fuel, and transportation of smelt to the processing site; no ADF&G personnel, gear, or equipment are used during the smelt harvest. Smelt are sold in the state's name under a CFEC permit to a local processor based on the number of tons harvested and the price offered by the successful bidder. Proceeds from the sale are used to fund the studies of smelt and assess the possibility of future commercial fisheries.

Table 25. Prince William Sound Smelt Test Fish Project TF-321.

FISCAL YEAR	AUTHORIZATION	EXPENDITURE	REVENUE
2002	0.0		
2001	0.0	14.5	14.1
2000	0.0	21.2	21.8
1999	0.0	24.5	0.0

CENTRAL REGION TEST FISH SUMMARY

Central Region's Test Fish Fund program is made up of 24 active projects. Of these, 15 are aimed at salmon, 5 are aimed at herring, 3 are aimed at shellfish and groundfish, and 1 is aimed at smelt. Total expenditure of Test Fish Fund monies during FY 01 was \$654.1 while revenues earned were \$651.3 (Table 26). It is very difficult to match expenses with revenue due to year-to-year variations in price, other market conditions, and fishing success. During the past three years, however, expenditures and revenues have matched quite closely with average expenditure of \$650.1 per year and average revenue of \$683.7 per year. Revenue must, of course, exceed expenditures or the program would operate in deficit, which would have to be made up out of other projects.

The success of this program relies heavily on a group of six projects that, in whole or in part, are designed simply to generate revenue to pay for themselves or for projects that cannot generate sufficient revenue. These projects account for 68 percent of all Test Fish Fund revenues in Central Region over the past three years. Without these projects, the Test Fish Fund program could not survive. Given that Test Fish Fund revenues add 12 percent to the Central Region General Fund budget, this loss would have serious consequences for commercial fisheries in Central region.

Table 26. Central Region Test Fish Summary By Area.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
BRISTOL BAY									
Salmon	392.4	389.4	471.3	399.9	275.8	360.5	402.9	494.3	547.8
Herring	131.9	95.5	70.8	79.2	76.5	67.9	62.8	27.7	87.4
TOTAL	524.3	484.9	542.1	479.1	352.3	428.4	465.7	522.0	635.2
COOK INLET									
Salmon	121.0	106.7	44.0	119.0	117.8	123.0	64.0	59.0	34.3
Herring	30.0	0.0	0.0	30.0	9.3	0.0	30.0	13.2	10.0
SF/GF	5.0	0.0	0.0	5.0	0.0	0.0	25.0	1.8	0.0
TOTAL	156.0	106.7	44.0	154.0	127.1	123.0	119.0	74.0	44.3
PWS									
Salmon	90.0	5.9	0.0	88.7	34.1	30.2	88.7	0.0	0.0
Herring	57.5	0.0	0.0	57.5	1.9	0.0	57.5	33.9	2.4
SF/GF	76.2	42.1	51.1	74.9	51.8	50.6	82.3	53.5	64.5
Smelt	0.0	14.5	14.1	0.0	21.2	21.8	0.0	24.5	0.0
TOTAL	223.7	62.5	65.2	221.1	109.0	102.1	228.5	111.9	66.9
REGION TOTAL	904.0	654.1	651.3	854.2	588.4	653.5	813.2	707.9	746.4

APPENDIX A. Central Region Salmon Test Fish Project Summary.

Table A1. Bristol Bay salmon.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
Kvichak R.	32.9	24.4	1.5	32.5	31.1	19.5	32.9	31.6	19.3
Egegik R.	32.6	30.7	15.6	32.2	30.8	10.0	31.7	26.5	20.8
Ugashik R.	28.6	23.1	8.1	28.3	20.6	3.0	28.4	23.2	7.1
Igushik R.	22.4	8.1	0.4	21.8	19.0	0.1	21.9	23.9	9.7
E. Side Dist.	49.8	86.3	88.5	49.0	53.1	59.0	49.6	138.1	135.8
Nushagak Dist.	48.9	43.6	46.6	48.5	18.0	39.5	48.6	70.9	79.4
Stock ID	107.2	97.6	310.6	98.2	29.2	229.4	100.3	95.3	275.7
W. Side Catch	19.2	19.1	0.0	18.9	20.2	0.0	18.9	20.5	0.0
E. Side Catch	31.7	35.0	0.0	30.6	29.2	0.0	30.6	31.6	0.0
Ugashik Smolt	19.1	21.5	0.0	19.9	10.4	0.0	20.0	11.0	0.0
Limnology	0.0	0.0	0.0	20.0	14.2	0.0	20.0	21.7	0.0
TOTAL	392.4	389.4	471.3	399.9	275.8	360.5	402.9	494.3	547.8

Table A2. Cook Inlet salmon.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
Offshore TF	64.1	51.2	44.0	64.0	61.3	84.5	64.0	59.0	34.3
Fishery Monit.	17.5	15.5	0.0	16.8	12.2	0.0	0.0	0.0	0.0
Limnology.	39.4	40.0	0.0	38.2	44.3	38.5			
TOTAL	121.0	106.7	44.0	119.0	117.8	123.0	64.0	59.0	34.3

Table A3. Prince William Sound salmon.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
Salmon TF	90.9	5.9	0.0	88.7	34.1	30.2	88.7	0.0	0.0
TOTAL	90.9	5.9	0.0	88.7	34.1	30.2	88.7	0.0	0.0

Table A4. Central Region salmon test fish summary by area.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
Bristol Bay	392.4	389.4	471.3	399.9	275.8	360.5	402.9	494.3	547.8
Cook Inlet	121.0	106.7	44.0	119.0	117.8	123.0	64.0	59.0	34.3
PWS	90.0	5.9	0.0	88.7	34.1	30.2	88.7	0.0	0.0
TOTAL	603.4	502.0	515.3	607.6	427.7	513.7	555.6	553.3	582.1

APPENDIX B. Central Region Herring Test Fish Project Summary.

Table B1. Bristol Bay herring.

PROJECT	AUTH	FY 01 EXPEND	REV	AUTH	FY 00 EXPEND	REV	AUTH	FY 99 EXPEN D	REV
Inseason TF	50.1	80.0	70.8	20.0	64.3	67.9	20.0	27.7	87.4
Post-season TF	42.4	15.5	0.0	16.8	12.2	0.0	0.0	0.0	0.0
Spawn on Kelp	39.4	0.0	0.0	42.4	0.0	0.0	42.8	0.0	0.0
TOTAL	131.9	95.5	70.8	79.2	76.5	67.9	62.8	27.7	87.4

Table B2. Cook Inlet herring.

PROJECT	AUTH	FY 01 EXPEND	REV	AUTH	FY 00 EXPEND	REV	AUTH	FY 99 EXPEND	REV
Herring TF	30.0	0.0	0.0	30.0	9.3	0.0	30.0	13.2	10.0
TOTAL	30.0	0.0	0.0	30.0	9.3	0.0	30.0	13.2	10.0

Table B3. Prince William Sound herring.

PROJECT	AUTH	FY 01 EXPEND	REV	AUTH	FY 00 EXPEND	REV	AUTH	FY 99 EXPEND	REV
Herring TF	57.6	0.0	0.0	57.5	1.9	0.0	57.5	33.9	2.4
TOTAL	57.5	0.0	0.0	57.5	1.9	0.0	57.5	33.9	2.4

Table B4. Central Region herring test fish summary by area.

PROJECT	AUTH	FY 01 EXPEND	REV	AUTH	FY 00 EXPEND	REV	AUTH	FY 99 EXPEND	REV
Bristol Bay	131.9	95.5	70.8	79.2	76.5	67.9	62.8	27.7	87.4
Cook Inlet	30.0	0.0	0.0	30.0	9.3	0.0	30.0	13.2	0.0
PWS	57.5	0.0	0.0	57.5	1.9	0.0	57.5	33.9	2.4
TOTAL	219.4	95.5	70.8	166.7	87.7	67.9	150.3	74.8	89.8

APPENDIX C. Central Region Shellfish/Groundfish And Smelt Test Fish Project Summary.

Table C1. Cook Inlet shellfish/groundfish.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
Stock Assmt.	5.0	0.0	0.0	5.0	0.0	0.0	25.0	1.8	0.0
TOTAL	5.0	0.0	0.0	5.0	0.0	0.0	25.0	1.8	0.0

Table C2. Prince William Sound shellfish/groundfish.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
GF Assmt.	69.6	42.1	51.1	68.9	51.8	50.6	68.9	53.5	64.5
SF Stock Assmt.	6.6	0.0	0.0	6.0	0.0	0.0	13.4	0.0	0.0
TOTAL	76.2	42.1	51.1	74.9	51.8	50.6	82.3	53.5	64.5

Table C3. Central Region shellfish/groundfish test fish summary by area.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
Cook Inlet	5.0	0.0	0.0	5.0	0.0	0.0	25.0	1.8	0.0
PWS	76.2	42.1	51.1	74.9	51.8	50.6	82.3	53.5	64.5
TOTAL	81.2	42.1	51.1	79.9	51.8	50.6	107.3	55.3	64.5

Table C4. Prince William Sound smelt.

PROJECT	FY 01			FY 00			FY 99		
	AUTH	EXPEND	REV	AUTH	EXPEND	REV	AUTH	EXPEND	REV
Smelt TF	0.0	14.5	14.1	0.0	21.2	21.8	0.0	24.5	0.0
TOTAL	0.0	14.5	14.1	0.0	21.2	21.8	0.0	24.5	0.0

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